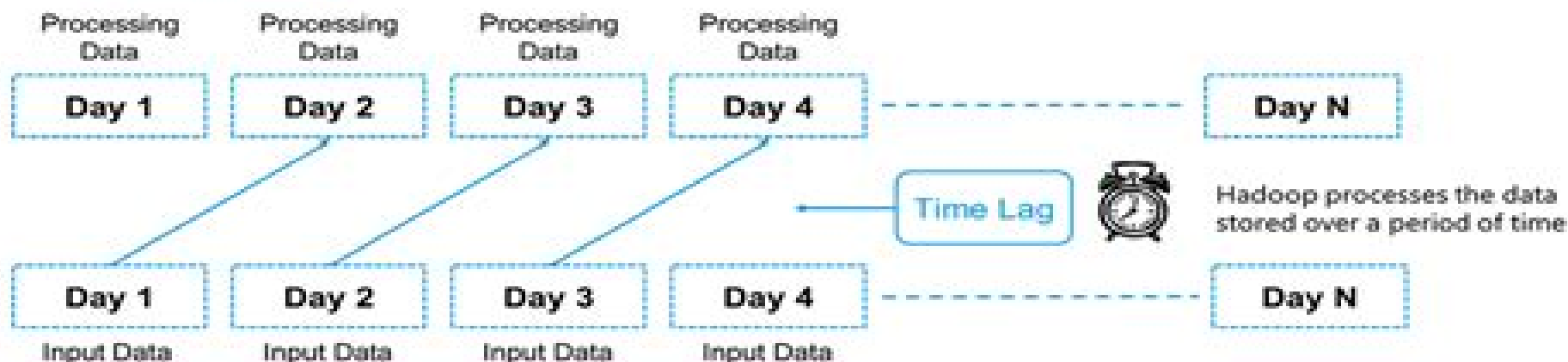
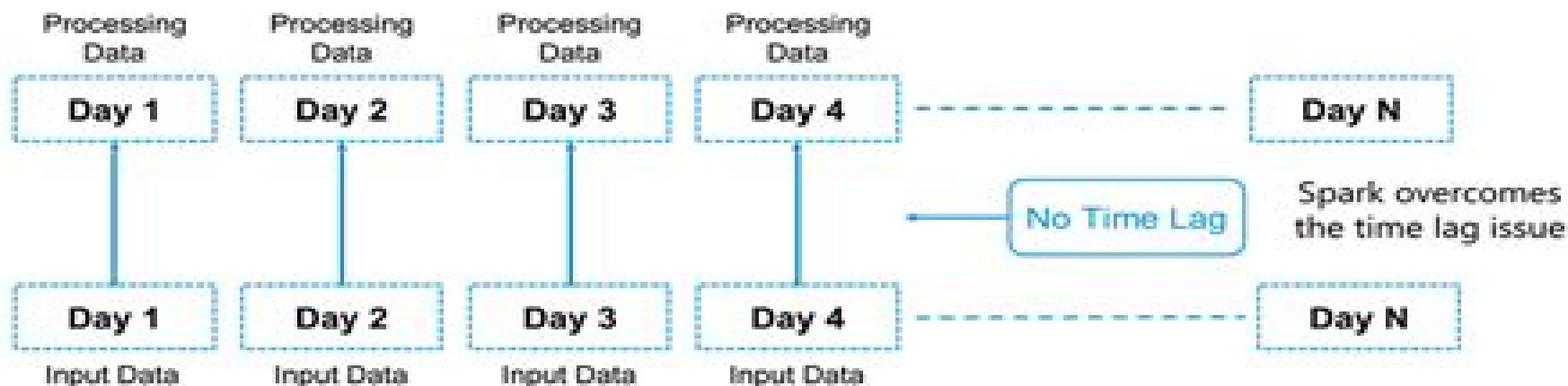




## Processing Data Using MapReduce



## Real Time Processing in Spark



# Java Programming Guide On Apache Spark

**Peipei Pang**



## Java Programming Guide On Apache Spark:

**Apache Spark Quick Start Guide** Shrey Mehrotra,Akash Grade,2019-01-31 A practical guide for solving complex data processing challenges by applying the best optimizations techniques in Apache Spark Key FeaturesLearn about the core concepts and the latest developments in Apache SparkMaster writing efficient big data applications with Spark s built in modules for SQL Streaming Machine Learning and Graph analysisGet introduced to a variety of optimizations based on the actual experienceBook Description Apache Spark is a flexible framework that allows processing of batch and real time data Its unified engine has made it quite popular for big data use cases This book will help you to get started with Apache Spark 2 0 and write big data applications for a variety of use cases It will also introduce you to Apache Spark one of the most popular Big Data processing frameworks Although this book is intended to help you get started with Apache Spark but it also focuses on explaining the core concepts This practical guide provides a quick start to the Spark 2 0 architecture and its components It teaches you how to set up Spark on your local machine As we move ahead you will be introduced to resilient distributed datasets RDDs and DataFrame APIs and their corresponding transformations and actions Then we move on to the life cycle of a Spark application and learn about the techniques used to debug slow running applications You will also go through Spark s built in modules for SQL streaming machine learning and graph analysis Finally the book will lay out the best practices and optimization techniques that are key for writing efficient Spark applications By the end of this book you will have a sound fundamental understanding of the Apache Spark framework and you will be able to write and optimize Spark applications What you will learnLearn core concepts such as RDDs DataFrames transformations and moreSet up a Spark development environmentChoose the right APIs for your applicationsUnderstand Spark s architecture and the execution flow of a Spark applicationExplore built in modules for SQL streaming ML and graph analysisOptimize your Spark job for better performanceWho this book is for If you are a big data enthusiast and love processing huge amount of data this book is for you If you are data engineer and looking for the best optimization techniques for your Spark applications then you will find this book helpful This book also helps data scientists who want to implement their machine learning algorithms in Spark You need to have a basic understanding of any one of the programming languages such as Scala Python or Java *Big Data Processing with Apache Spark* Srini Penchikala,2018-03-13 Apache Spark is a popular open source big data processing framework that s built around speed ease of use and unified distributed computing architecture Not only it supports developing applications in different languages like Java Scala Python and R it s also hundred times faster in memory and ten times faster even when running on disk compared to traditional data processing frameworks Whether you are currently working on a big data project or interested in learning more about topics like machine learning streaming data processing and graph data analytics this book is for you You can learn about Apache Spark and develop Spark programs for various use cases in big data analytics using the code examples provided This book covers all the libraries in Spark ecosystem Spark

Core Spark SQL Spark Streaming Spark ML and Spark GraphX      **Big Data Analytics with Java** Rajat Mehta,2017-07-31

Learn the basics of analytics on big data using Java machine learning and other big data tools About This Book Acquire real world set of tools for building enterprise level data science applications Surpasses the barrier of other languages in data science and learn create useful object oriented codes Extensive use of Java compliant big data tools like apache spark Hadoop etc Who This Book Is For This book is for Java developers who are looking to perform data analysis in production environment Those who wish to implement data analysis in their Big data applications will find this book helpful What You Will Learn Start from simple analytic tasks on big data Get into more complex tasks with predictive analytics on big data using machine learning Learn real time analytic tasks Understand the concepts with examples and case studies Prepare and refine data for analysis Create charts in order to understand the data See various real world datasets In Detail This book covers case studies such as sentiment analysis on a tweet dataset recommendations on a movielens dataset customer segmentation on an ecommerce dataset and graph analysis on actual flights dataset This book is an end to end guide to implement analytics on big data with Java Java is the de facto language for major big data environments including Hadoop This book will teach you how to perform analytics on big data with production friendly Java This book basically divided into two sections The first part is an introduction that will help the readers get acquainted with big data environments whereas the second part will contain a hardcore discussion on all the concepts in analytics on big data It will take you from data analysis and data visualization to the core concepts and advantages of machine learning real life usage of regression and classification using Naive Bayes a deep discussion on the concepts of clustering and a review of simple neural networks on big data using deepLearning4j or plain Java Spark code This book is a must have book for Java developers who want to start learning big data analytics and want to use it in the real world Style and approach The approach of book is to deliver practical learning modules in manageable content Each chapter is a self contained unit of a concept in big data analytics Book will step by step builds the competency in the area of big data analytics Examples using real world case studies to give ideas of real applications and how to use the techniques mentioned The examples and case studies will be shown using both theory and code      **Spark in Action, Second Edition** Jean-Georges Perrin,2020-06-02 Summary The Spark distributed

data processing platform provides an easy to implement tool for ingesting streaming and processing data from any source In Spark in Action Second Edition you ll learn to take advantage of Spark s core features and incredible processing speed with applications including real time computation delayed evaluation and machine learning Spark skills are a hot commodity in enterprises worldwide and with Spark s powerful and flexible Java APIs you can reap all the benefits without first learning Scala or Hadoop Foreword by Rob Thomas Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Analyzing enterprise data starts by reading filtering and merging files and streams from many sources The Spark data processing engine handles this varied volume like a champ delivering speeds 100

times faster than Hadoop systems Thanks to SQL support an intuitive interface and a straightforward multilanguage API you can use Spark without learning a complex new ecosystem About the book *Spark in Action* Second Edition teaches you to create end to end analytics applications In this entirely new book you ll learn from interesting Java based examples including a complete data pipeline for processing NASA satellite data And you ll discover Java Python and Scala code samples hosted on GitHub that you can explore and adapt plus appendixes that give you a cheat sheet for installing tools and understanding Spark specific terms What s inside Writing Spark applications in Java Spark application architecture Ingestion through files databases streaming and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark Scala or Hadoop About the author Jean Georges Perrin is an experienced data and software architect He is France s first IBM Champion and has been honored for 12 consecutive years

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*Learning Apache Spark*

2 Muhammad Asif Abbasi, 2017-03-28 Learn about the fastest growing open source project in the world and find out how it revolutionizes big data analytics About This Book Exclusive guide that covers how to get up and running with fast data processing using Apache Spark Explore and exploit various possibilities with Apache Spark using real world use cases in this book Want to perform efficient data processing at real time This book will be your one stop solution Who This Book Is For This guide appeals to big data engineers analysts architects software engineers even technical managers who need to perform efficient data processing on Hadoop at real time Basic familiarity with Java or Scala will be helpful The assumption is that readers will be from a mixed background but would be typically people with background in engineering data science with no prior Spark experience and want to understand how Spark can help them on their analytics journey What You Will Learn Get an overview of big data analytics and its importance for organizations and data professionals Delve into Spark to see how it is different from existing processing platforms Understand the intricacies of various file formats and how to process them with Apache Spark Realize how to deploy Spark with YARN MESOS or a Stand alone cluster manager Learn the concepts of Spark SQL SchemaRDD Caching and working with Hive and Parquet file formats Understand the architecture of Spark MLlib while discussing some of the off the shelf algorithms that come with Spark Introduce yourself to the deployment and usage of SparkR Walk through the importance of Graph computation and the graph processing systems available in the market Check

the real world example of Spark by building a recommendation engine with Spark using ALS Use a Telco data set to predict customer churn using Random Forests In Detail Spark juggernaut keeps on rolling and getting more and more momentum each day Spark provides key capabilities in the form of Spark SQL Spark Streaming Spark ML and Graph X all accessible via Java Scala Python and R Deploying the key capabilities is crucial whether it is on a Standalone framework or as a part of existing Hadoop installation and configuring with Yarn and Mesos The next part of the journey after installation is using key components APIs Clustering machine learning APIs data pipelines parallel programming It is important to understand why each framework component is key how widely it is being used its stability and pertinent use cases Once we understand the individual components we will take a couple of real life advanced analytics examples such as Building a Recommendation system Predicting customer churn and so on The objective of these real life examples is to give the reader confidence of using Spark for real world problems Style and approach With the help of practical examples and real world use cases this guide will take you from scratch to building efficient data applications using Apache Spark You will learn all about this excellent data processing engine in a step by step manner taking one aspect of it at a time This highly practical guide will include how to work with data pipelines dataframes clustering SparkSQL parallel programming and such insightful topics with the help of real world use cases

**Apache Spark Machine Learning Blueprints** Alex Liu, 2016-05-30 Develop a range of cutting edge machine learning projects with Apache Spark using this actionable guide About This Book Customize Apache Spark and R to fit your analytical needs in customer research fraud detection risk analytics and recommendation engine development Develop a set of practical Machine Learning applications that can be implemented in real life projects A comprehensive project based guide to improve and refine your predictive models for practical implementation Who This Book Is For If you are a data scientist a data analyst or an R and SPSS user with a good understanding of machine learning concepts algorithms and techniques then this is the book for you Some basic understanding of Spark and its core elements and application is required What You Will Learn Set up Apache Spark for machine learning and discover its impressive processing power Combine Spark and R to unlock detailed business insights essential for decision making Build machine learning systems with Spark that can detect fraud and analyze financial risks Build predictive models focusing on customer scoring and service ranking Build a recommendation systems using SPSS on Apache Spark Tackle parallel computing and find out how it can support your machine learning projects Turn open data and communication data into actionable insights by making use of various forms of machine learning In Detail There s a reason why Apache Spark has become one of the most popular tools in Machine Learning its ability to handle huge datasets at an impressive speed means you can be much more responsive to the data at your disposal This book shows you Spark at its very best demonstrating how to connect it with R and unlock maximum value not only from the tool but also from your data Packed with a range of project blueprints that demonstrate some of the most interesting challenges that Spark can help you tackle you ll find out how to use Spark

notebooks and access clean and join different datasets before putting your knowledge into practice with some real world projects in which you will see how Spark Machine Learning can help you with everything from fraud detection to analyzing customer attrition You ll also find out how to build a recommendation engine using Spark s parallel computing powers Style and approach This book offers a step by step approach to setting up Apache Spark and use other analytical tools with it to process Big Data and build machine learning projects The initial chapters focus more on the theory aspect of machine learning with Spark while each of the later chapters focuses on building standalone projects using Spark

**Machine Learning with Spark** Rajdeep Dua,Manpreet Singh Ghotra,Nick Pentreath,2017-04-28 Create scalable machine learning applications to power a modern data driven business using Spark 2 x About This Book Get to the grips with the latest version of Apache Spark Utilize Spark s machine learning library to implement predictive analytics Leverage Spark s powerful tools to load analyze clean and transform your data Who This Book Is For If you have a basic knowledge of machine learning and want to implement various machine learning concepts in the context of Spark ML this book is for you You should be well versed with the Scala and Python languages What You Will Learn Get hands on with the latest version of Spark ML Create your first Spark program with Scala and Python Set up and configure a development environment for Spark on your own computer as well as on Amazon EC2 Access public machine learning datasets and use Spark to load process clean and transform data Use Spark s machine learning library to implement programs by utilizing well known machine learning models Deal with large scale text data including feature extraction and using text data as input to your machine learning models Write Spark functions to evaluate the performance of your machine learning models In Detail This book will teach you about popular machine learning algorithms and their implementation You will learn how various machine learning concepts are implemented in the context of Spark ML You will start by installing Spark in a single and multinode cluster Next you ll see how to execute Scala and Python based programs for Spark ML Then we will take a few datasets and go deeper into clustering classification and regression Toward the end we will also cover text processing using Spark ML Once you have learned the concepts they can be applied to implement algorithms in either green field implementations or to migrate existing systems to this new platform You can migrate from Mahout or Scikit to use Spark ML By the end of this book you will acquire the skills to leverage Spark s features to create your own scalable machine learning applications and power a modern data driven business Style and approach This practical tutorial with real world use cases enables you to develop your own machine learning systems with Spark The examples will help you combine various techniques and models into an intelligent machine learning system

**Beginning Apache Spark 2** Hien Luu,2018-08-16 Develop applications for the big data landscape with Spark and Hadoop This book also explains the role of Spark in developing scalable machine learning and analytics applications with Cloud technologies Beginning Apache Spark 2 gives you an introduction to Apache Spark and shows you how to work with it Along the way you ll discover resilient distributed datasets RDDs use Spark SQL for structured

data and learn stream processing and build real time applications with Spark Structured Streaming Furthermore you ll learn the fundamentals of Spark ML for machine learning and much more After you read this book you will have the fundamentals to become proficient in using Apache Spark and know when and how to apply it to your big data applications What You Will Learn Understand Spark unified data processing platform Howto run Spark in Spark Shell or Databricks Use and manipulate RDDs Deal with structured data using Spark SQL through its operations and advanced functions Build real time applications using Spark Structured Streaming Develop intelligent applications with the Spark Machine Learning library Who This Book Is For Programmers and developers active in big data Hadoop and Java but who are new to the Apache Spark platform

*Data Wrangling on AWS* Navnit Shukla,Sankar M,Sampat Palani,2023-07-31 Revamp your data landscape and implement highly effective data pipelines in AWS with this hands on guide Purchase of the print or Kindle book includes a free PDF eBook Key Features Execute extract transform and load ETL tasks on data lakes data warehouses and databases Implement effective Pandas data operation with data wrangler Integrate pipelines with AWS data services Book DescriptionData wrangling is the process of cleaning transforming and organizing raw messy or unstructured data into a structured format It involves processes such as data cleaning data integration data transformation and data enrichment to ensure that the data is accurate consistent and suitable for analysis Data Wrangling on AWS equips you with the knowledge to reap the full potential of AWS data wrangling tools First you ll be introduced to data wrangling on AWS and will be familiarized with data wrangling services available in AWS You ll understand how to work with AWS Glue DataBrew AWS data wrangler and AWS Sagemaker Next you ll discover other AWS services like Amazon S3 Redshift Athena and Quicksight Additionally you ll explore advanced topics such as performing Pandas data operation with AWS data wrangler optimizing ML data with AWS SageMaker building the data warehouse with Glue DataBrew along with security and monitoring aspects By the end of this book you ll be well equipped to perform data wrangling using AWS services What you will learn Explore how to write simple to complex transformations using AWS data wrangler Use abstracted functions to extract and load data from and into AWS datastores Configure AWS Glue DataBrew for data wrangling Develop data pipelines using AWS data wrangler Integrate AWS security features into Data Wrangler using identity and access management IAM Optimize your data with AWS SageMaker Who this book is for This book is for data engineers data scientists and business data analysts looking to explore the capabilities tools and services of data wrangling on AWS for their ETL tasks Basic knowledge of Python Pandas and a familiarity with AWS tools such as AWS Glue Amazon Athena is required to get the most out of this book      **Predictive Analytics For Dummies** Anasse Bari,Mohamed Chaouchi,Tommy Jung,2016-10-31 Use Big Data and technology to uncover real world insights You don t need a time machine to predict the future All it takes is a little knowledge and know how and Predictive Analytics For Dummies gets you there fast With the help of this friendly guide you ll discover the core of predictive analytics and get started putting it to use with readily available tools to collect and analyze data In no time you ll learn how to incorporate



algorithms through data models identify similarities and relationships in your data and predict the future through data classification Along the way you ll develop a roadmap by preparing your data creating goals processing your data and building a predictive model that will get you stakeholder buy in Big Data has taken the marketplace by storm and companies are seeking qualified talent to quickly fill positions to analyze the massive amount of data that are being collected each day If you want to get in on the action and either learn or deepen your understanding of how to use predictive analytics to find real relationships between what you know and what you want to know everything you need is a page away Offers common use cases to help you get started Covers details on modeling k means clustering and more Includes information on structuring your data Provides tips on outlining business goals and approaches The future starts today with the help of Predictive Analytics For Dummies     [Stream Processing with Apache Spark](#) Gerard Maas,Francois Garillot,2019-06-05 Before you can build analytics tools to gain quick insights you first need to know how to process data in real time With this practical guide developers familiar with Apache Spark will learn how to put this in memory framework to use for streaming data You ll discover how Spark enables you to write streaming jobs in almost the same way you write batch jobs Authors Gerard Maas and Fran ois Garillot help you explore the theoretical underpinnings of Apache Spark This comprehensive guide features two sections that compare and contrast the streaming APIs Spark now supports the original Spark Streaming library and the newer Structured Streaming API Learn fundamental stream processing concepts and examine different streaming architectures Explore Structured Streaming through practical examples learn different aspects of stream processing in detail Create and operate streaming jobs and applications with Spark Streaming integrate Spark Streaming with other Spark APIs Learn advanced Spark Streaming techniques including approximation algorithms and machine learning algorithms Compare Apache Spark to other stream processing projects including Apache Storm Apache Flink and Apache Kafka Streams

[Advanced Hadoop Techniques: A Comprehensive Guide to Mastery](#) Adam Jones,2025-05-13 Unlock the full potential of Hadoop with Advanced Hadoop Techniques A Comprehensive Guide to Mastery your essential resource for navigating the intricate complexities and harnessing the tremendous power of the Hadoop ecosystem Designed for data engineers developers administrators and data scientists this book elevates your skills from foundational concepts to the most advanced optimizations necessary for mastery Delve deep into the core of Hadoop unraveling its integral components such as HDFS MapReduce and YARN while expanding your knowledge to encompass critical ecosystem projects like Hive HBase Sqoop and Spark Through meticulous explanations and real world examples Advanced Hadoop Techniques A Comprehensive Guide to Mastery equips you with the tools to efficiently deploy manage and optimize Hadoop clusters Learn to fortify your Hadoop deployments by implementing robust security measures to ensure data protection and compliance Discover the intricacies of performance tuning to significantly enhance your data processing and analytics capabilities This book empowers you to not only learn Hadoop but to master sophisticated techniques that convert vast data sets into actionable insights Perfect for

aspiring professionals eager to make an impact in the realm of big data and seasoned experts aiming to refine their craft

**Advanced Hadoop Techniques A Comprehensive Guide to Mastery** serves as an invaluable resource Embark on your journey into the future of big data with confidence and expertise your path to Hadoop mastery starts here [AWS Certified Data Analytics Study Guide](#) Asif Abbasi,2020-11-20 Move your career forward with AWS certification Prepare for the AWS Certified Data Analytics Specialty Exam with this thorough study guide This comprehensive study guide will help assess your technical skills and prepare for the updated AWS Certified Data Analytics exam Earning this AWS certification will confirm your expertise in designing and implementing AWS services to derive value from data The AWS Certified Data Analytics Study Guide Specialty DAS C01 Exam is designed for business analysts and IT professionals who perform complex Big Data analyses This AWS Specialty Exam guide gets you ready for certification testing with expert content real world knowledge key exam concepts and topic reviews Gain confidence by studying the subject areas and working through the practice questions Big data concepts covered in the guide include Collection Storage Processing Analysis Visualization Data security AWS certifications allow professionals to demonstrate skills related to leading Amazon Web Services technology The AWS Certified Data Analytics Specialty DAS C01 Exam specifically evaluates your ability to design and maintain Big Data leverage tools to automate data analysis and implement AWS Big Data services according to architectural best practices An exam study guide can help you feel more prepared about taking an AWS certification test and advancing your professional career In addition to the guide s content you ll have access to an online learning environment and test bank that offers practice exams a glossary and electronic flashcards

**Multimedia Information Retrieval** Eduardo Quevedo,2021-06-02 Due to increasing globalization and the explosion of media available on the Internet computer techniques to organize classify and find desired media are becoming more and more relevant One such technique to extract semantic information from multimedia data sources is Multimedia Information Retrieval MMIR or MIR MIR is a broad area covering both structural issues and intelligent content analysis and retrieval These aspects must be integrated into a seamless whole which involves expertise from a wide variety of fields This book presents recent applications of MIR for content based image retrieval bioinformation analysis and processing forensic multimedia retrieval techniques and audio and music classification *Edge Intelligence* Javid Taheri,Schahram Dustdar,Albert Zomaya,Shuiguang Deng,2023-05-13 This graduate level textbook is ideally suited for lecturing the most relevant topics of Edge Computing and its ties to Artificial Intelligence AI and Machine Learning ML approaches It starts from basics and gradually advances step by step to ways AI ML concepts can help or benefit from Edge Computing platforms The book is structured into seven chapters each comes with its own dedicated set of teaching materials practical skills demonstration videos questions lab assignments etc Chapter 1 opens the book and comprehensively introduces the concept of distributed computing continuum systems that led to the creation of Edge Computing Chapter 2 motivates the use of container technologies and how they are used to implement programmable edge

computing platforms Chapter 3 introduces ways to employ AI ML approaches to optimize service lifecycles at the edge Chapter 4 goes deeper in the use of AI ML and introduces ways to optimize spreading computational tasks along edge computing platforms Chapter 5 introduces AI ML pipelines to efficiently process generated data on the edge Chapter 6 introduces ways to implement AI ML systems on the edge and ways to deal with their training and inferencing procedures considering the limited resources available at the edge nodes Chapter 7 motivates the creation of a new orchestrator independent object model to descriptive objects nodes applications etc and requirements SLAs for underlying edge platforms To provide hands on experience to students and step by step improve their technical capabilities seven sets of Tutorials and Labs TaLs are also designed Codes and Instructions for each TaL is provided on the book website and accompanied by videos to facilitate their learning process

Artificial Intelligence for Big Data Anand Deshpande, Manish Kumar, 2018-05-22 Build next generation Artificial Intelligence systems with Java Key Features Implement AI techniques to build smart applications using Deep learning 4j Perform big data analytics to derive quality insights using Spark MLlib Create self learning systems using neural networks NLP and reinforcement learning Book Description In this age of big data companies have larger amount of consumer data than ever before far more than what the current technologies can ever hope to keep up with However Artificial Intelligence closes the gap by moving past human limitations in order to analyze data With the help of Artificial Intelligence for big data you will learn to use Machine Learning algorithms such as k means SVM RBF and regression to perform advanced data analysis You will understand the current status of Machine and Deep Learning techniques to work on Genetic and Neuro Fuzzy algorithms In addition you will explore how to develop Artificial Intelligence algorithms to learn from data why they are necessary and how they can help solve real world problems By the end of this book you ll have learned how to implement various Artificial Intelligence algorithms for your big data systems and integrate them into your product offerings such as reinforcement learning natural language processing image recognition genetic algorithms and fuzzy logic systems What you will learn Manage Artificial Intelligence techniques for big data with Java Build smart systems to analyze data for enhanced customer experience Learn to use Artificial Intelligence frameworks for big data Understand complex problems with algorithms and Neuro Fuzzy systems Design stratagems to leverage data using Machine Learning process Apply Deep Learning techniques to prepare data for modeling Construct models that learn from data using open source tools Analyze big data problems using scalable Machine Learning algorithms Who this book is for This book is for you if you are a data scientist big data professional or novice who has basic knowledge of big data and wish to get proficiency in Artificial Intelligence techniques for big data Some competence in mathematics is an added advantage in the field of elementary linear algebra and calculus

Scala for Machine Learning Patrick R. Nicolas, 2017-09-26 Leverage Scala and Machine Learning to study and construct systems that can learn from data About This Book Explore a broad variety of data processing machine learning and genetic algorithms through diagrams mathematical formulation and updated source

code in Scala Take your expertise in Scala programming to the next level by creating and customizing AI applications Experiment with different techniques and evaluate their benefits and limitations using real world applications in a tutorial style Who This Book Is For If you re a data scientist or a data analyst with a fundamental knowledge of Scala who wants to learn and implement various Machine learning techniques this book is for you All you need is a good understanding of the Scala programming language a basic knowledge of statistics a keen interest in Big Data processing and this book What You Will Learn Build dynamic workflows for scientific computing Leverage open source libraries to extract patterns from time series Write your own classification clustering or evolutionary algorithm Perform relative performance tuning and evaluation of Spark Master probabilistic models for sequential data Experiment with advanced techniques such as regularization and kernelization Dive into neural networks and some deep learning architecture Apply some basic multiarm bandit algorithms Solve big data problems with Scala parallel collections Akka actors and Apache Spark clusters Apply key learning strategies to a technical analysis of financial markets In Detail The discovery of information through data clustering and classification is becoming a key differentiator for competitive organizations Machine learning applications are everywhere from self driving cars engineering design logistics manufacturing and trading strategies to detection of genetic anomalies The book is your one stop guide that introduces you to the functional capabilities of the Scala programming language that are critical to the creation of machine learning algorithms such as dependency injection and implicits You start by learning data preprocessing and filtering techniques Following this you ll move on to unsupervised learning techniques such as clustering and dimension reduction followed by probabilistic graphical models such as Naive Bayes hidden Markov models and Monte Carlo inference Further it covers the discriminative algorithms such as linear logistic regression with regularization kernelization support vector machines neural networks and deep learning You ll move on to evolutionary computing multibandit algorithms and reinforcement learning Finally the book includes a comprehensive overview of parallel computing in Scala and Akka followed by a description of Apache Spark and its ML library With updated codes based on the latest version of Scala and comprehensive examples this book will ensure that you have more than just a solid fundamental knowledge in machine learning with Scala Style and approach This book is designed as a tutorial with hands on exercises using technical analysis of financial markets and corporate data The approach of each chapter is such that it allows you to understand key concepts easily

**Processing Big Data with Azure HDInsight** Vinit Yadav, 2017-05-29 Get a jump start on using Azure HDInsight and Hadoop Ecosystem components As most Hadoop and Big Data projects are written in either Java Scala or Python this book minimizes the effort to learn another language and is written from the perspective of a .NET developer Hadoop components are covered including Hive Pig HBase Storm and Spark on Azure HDInsight and code samples are written in .NET only Processing Big Data with Azure HDInsight covers the fundamentals of big data how businesses are using it to their advantage and how Azure HDInsight fits into the big data world This book introduces Hadoop and big data concepts and then

dives into creating different solutions with HDInsight and the Hadoop Ecosystem It covers concepts with real world scenarios and code examples making sure you get hands on experience The best way to utilize this book is to practice while reading After reading this book you will be familiar with Azure HDInsight and how it can be utilized to build big data solutions including batch processing stream analytics interactive processing and storing and retrieving data in an efficient manner What You ll Learn Understand the fundamentals of HDInsight and Hadoop Work with HDInsight cluster Query with Apache Hive and Apache Pig Store and retrieve data with Apache HBase Stream data processing using Apache Storm Work with Apache Spark Who This Book Is For Software developers technical architects data scientists analysts and Hadoop administrators who want to develop on Microsoft s managed Hadoop offering HDInsight

**AWS Certified Data Engineer Associate Study Guide** Sakti Mishra,Dylan Qu,Anusha Challa,2025-08-25 There s no better time to become a data engineer And acing the AWS Certified Data Engineer Associate DEA C01 exam will help you tackle the demands of modern data engineering and secure your place in the technology driven future Authors Sakti Mishra Dylan Qu and Anusha Challa equip you with the knowledge and sought after skills necessary to effectively manage data and excel in your career Whether you re a data engineer data analyst or machine learning engineer you ll discover in depth guidance practical exercises sample questions and expert advice you need to leverage AWS services effectively and achieve certification By reading you ll learn how to Ingest transform and orchestrate data pipelines effectively Select the ideal data store design efficient data models and manage data lifecycles Analyze data rigorously and maintain high data quality standards Implement robust authentication authorization and data governance protocols Prepare thoroughly for the DEA C01 exam with targeted strategies and practices

**Data Ingestion with Python Cookbook** Glaucia Espenichutz,2023-05-31 Deploy your data ingestion pipeline orchestrate and monitor efficiently to prevent loss of data and quality Key Features Harness best practices to create a Python and PySpark data ingestion pipeline Seamlessly automate and orchestrate your data pipelines using Apache Airflow Build a monitoring framework by integrating the concept of data observability into your pipelines Book Description Data Ingestion with Python Cookbook offers a practical approach to designing and implementing data ingestion pipelines It presents real world examples with the most widely recognized open source tools on the market to answer commonly asked questions and overcome challenges You ll be introduced to designing and working with or without data schemas as well as creating monitored pipelines with Airflow and data observability principles all while following industry best practices The book also addresses challenges associated with reading different data sources and data formats As you progress through the book you ll gain a broader understanding of error logging best practices troubleshooting techniques data orchestration monitoring and storing logs for further consultation By the end of the book you ll have a fully automated set that enables you to start ingesting and monitoring your data pipeline effortlessly facilitating seamless integration with subsequent stages of the ETL process What you will learn Implement data observability using monitoring tools Automate your data ingestion pipeline Read

analytical and partitioned data whether schema or non schema based Debug and prevent data loss through efficient data monitoring and logging Establish data access policies using a data governance framework Construct a data orchestration framework to improve data quality Who this book is for This book is for data engineers and data enthusiasts seeking a comprehensive understanding of the data ingestion process using popular tools in the open source community For more advanced learners this book takes on the theoretical pillars of data governance while providing practical examples of real world scenarios commonly encountered by data engineers

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